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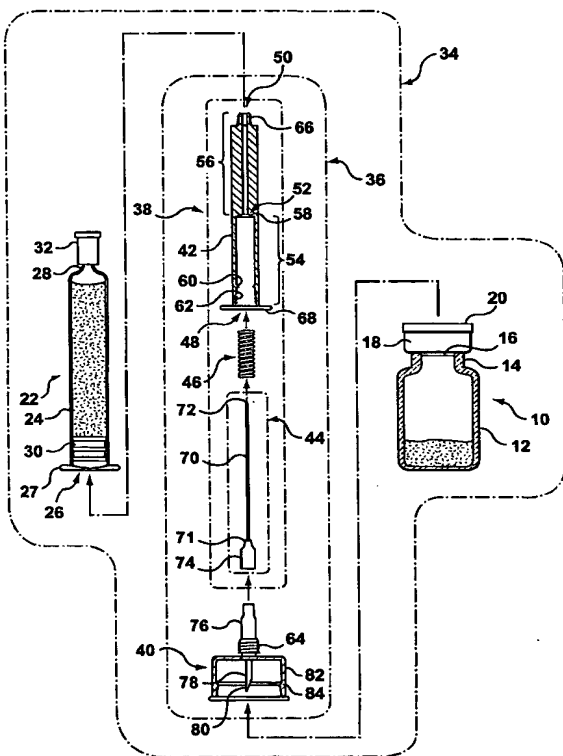
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(54) Title: **PHARMACEUTICAL DELIVERY SYSTEMS AND METHODS FOR USING SAME**



housing in concert with the conduit.

(57) Abstract: The present invention provides for an assembly for transferring a fluid between a vessel having a body with an open end and a slidable piston positioned within the body and a vial having a penetrable seal. The assembly includes a housing having first and second open ends, and a bore extending between the first and second open ends. The housing is removably connectable to the piston. The assembly also includes a conduit having first and second ends and first and second apertures adjacent to the first and second ends, respectively. The conduit is longitudinally slidable within the bore between a retracted position in which the first aperture is positioned within at least one of the housing and the piston when the housing is connected to the piston, and an activated position in which the first aperture protrudes through the piston into the body of the vessel when the housing is connected to the piston. The assembly further includes a vial socket assembly having a vial socket for receiving and engaging at least a portion of the vial including the penetrable seal and a hollow piercing member having a first open end in fluid communication with the conduit and a second open end for piercing the penetrable closure. The vial socket assembly is moveable longitudinally relative to the



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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*